

DGUOK Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	DGUOK;Deoxyguanosine kinase, mitochondrial;mitochondrial;DGK;Deoxyadenosine kinase, mitochondrial
Protein Construction:	40-277
Species:	Human
Expression Host:	E. coli
Accession:	Q16854
Molecular Weight:	44.0 kDa (predicted)
AA Sequence:	RLSIEGNIAVGKSTFVKLLTKYPEWHVATEPVATWQNIQAAGTQKACTAQSLGNLLDDMMYREPARWSYTFQ TFSFLSRLKVVLEPFPEKLLQARKPVQIFERSVYSDRYIFAKNLFENGSLSDIEWHIYQDWHSFLLWEFASRITL HGFIYVQASPQVCLKRLYQRAREEEKGIELAYLEQLHGQHEAWLIHKTTKLHFEALMNIPVLVLDVNDDFSEEV TKQEDLMREVNTFVKNL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Phosphorylates deoxyguanosine and deoxyadenosine in the mitochondrial matrix, with the highest efficiency for deoxyguanosine. In non-replicating cells, where cytosolic dNTP synthesis is down-regulated, mtDNA synthesis depends solely on DGUOK and TK2. Phosphorylates certain nucleoside analogs. Widely used as target of antiviral

and chemotherapeutic agents.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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